

Substitute for form 1449A/B/C/D

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

### Complete if Known

Application Number	10/680286
Filing Date	October 06, 2003
First Named Inventor	MARGUERITE A. CERVIN
Group Art Unit	1652
Examiner Name	UNKNOWN I. Chowdhury
Attorney Docket Number	CL2180USNA

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup>	(if known)			
IC ↓	1	US -	6,472,169 B1	10-29-2002	JOHN W. FROST ET. AL.	
	2	US -	2002/0168654 A1	11-14-2002	COSTAS D. MARANAS ET. AL.	
	3	US -	2005/0208615 A1	09-22-2005	ANTOINETTE E. WILKINS ET. AL.	
	4	US -	6,962,794 B2	11-08-2005	FERNANDO VALLE ET. AL.	
	5	US -	6,432,686 B1	08-13-2002	BEN A. BULTHUIS ET. AL.	
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				

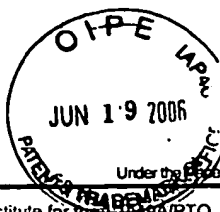
### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	To
		CountryCode <sup>3</sup>	Number* Kind Code <sup>5</sup>	(if known)			
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Examiner Signature	/Iqbal Chowdhury/ (06/29/2006)	Date Considered	
--------------------	--------------------------------	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kind's Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08B (07-05)

Approved for use through 06/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for Form PTO/A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	10/880288
Filing Date	October 06, 2003
First Named Inventor	MARGUERITE A. CERVIN
Group Art Unit	1652
Examiner Name	UNKNOWN I. Chowdhury
Attorney Docket Number	CL2180USNA

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
IC	1	INTERNATIONAL SEARCH REPORT DATED 03-14-2006, INTERNATIONAL APPLICATION NO. PCT/US03/31805, INTERNATIONAL FILING DATE: 10-06-2003	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner Signature	/Iqbal Chowdhury/ (06/29/2006)	Date Considered
-----------------------	--------------------------------	--------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet	1	of	1
-------	---	----	---

**Complete if Known**

Application Number	10/680286
Filing Date	October 06, 2003
First Named Inventor	MARGUERITE A. CERVIN
Group Art Unit	1645-1652
Examiner Name	UNKNOWN L. Chow
Attorney Docket Number	CL2180USNA

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

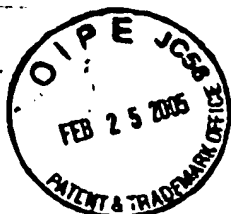
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		CountryCode <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
IC	1	WO	96/34961 .	11/07/1996	GENENCOR INTERNATIONAL, INC. & UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO		<input type="checkbox"/>
IC	2	WO	96/35796	11/14/1996	E.I. DU PONT DE NEMOURS AND COMPANY & GENENCOR INTERNATIONAL, INC.		<input type="checkbox"/>
IC	3	WO	99/28480	06/10/1999	E.I. DU PONT DE NEMOURS AND COMPANY & GENENCOR INTERNATIONAL, INC.		<input type="checkbox"/>
IC	4	WO	98/21339	05/22/1998	E.I. DU PONT DE NEMOURS AND COMPANY & GENENCOR INTERNATIONAL, INC.		<input type="checkbox"/>
IC	5	WO	98/21341	05-22-1998	GENENCOR INTERNATIONAL, INC.		<input type="checkbox"/>
IC	6	WO	01/12833 A2	02-22-2001	E.I. DU PONT DE NEMOURS AND COMPANY & GENENCOR INTERNATIONAL, INC.		<input type="checkbox"/>
IC	7	EP	1170378 A1	01-09-2002	AJINOMOTO CO., INC.		<input type="checkbox"/>
							<input type="checkbox"/>
IC							<input type="checkbox"/>

Examiner  
Signature

/Iqbal Chowdhury/ (06/29/200

5 Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.



PTO/SB/08B (08-03)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/680286
		Filing Date	October 08, 2003
		First Named Inventor	MARGUERITE A. CERVIN ET. AL.
		Group Art Unit	1645
		Examiner Name	UNKNOWN
		Attorney Docket Number	CL2180USNA
Sheet	1	of	1

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	ROLF DANIEL ET AL., Biochemistry of Coenzyme B12-dependent glycerol and diol dehydratases and organization of the encoding genes, FEMS Microbiology Reviews, Vol. 22:553-566, 1999	<input type="checkbox"/>
	2	TETSUO TORAYA ET AL., A Reactivating Factor for Coenzyme B12-dependent Diol Dehydratase, J. Biol. Chem., Vol. 274(6):3372-3377, 1999	<input type="checkbox"/>
	3	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 5069449, ACCESSION NO. AF026270, OCTOBER 19, 1999, THE CONTROL REGION OF THE PDU/COB REGULON IN SALMONELLA TYPHIMURIUM, P. CHEN ET AL.	<input type="checkbox"/>
	4	WANG ET AL., Cloning, Sequence, and Disruption of the Saccharomyces diastaticus DAR1 Gene Encoding a Glycerol-3-Phosphate Dehydrogenase, J. Bact., Vol. 176:7091-7095, 1994	<input type="checkbox"/>
	5	JOAKIM NORBECK ET AL., Purification and Characterization of Two Isoenzymes of DL-Glycerol-3-phosphatase from Saccharomyces cerevisiae, J. Biol. Chem., Vol. 271(23):13875-13881, 1996	<input type="checkbox"/>
	6	V. HERNANDEZ-MONTALVO ET AL., Characterization of Sugar Mixtures utilization by an Escherichia coli mutant devoid of the phosphotransferase system, Appl. Microbiol. Biotechnol., Vol. 57:186-191, 2001	<input type="checkbox"/>
	7	KATRIN LARSSON ET AL., A gene encoding sn-glycerol 3-phosphate dehydrogenase (NAD+) complements an osmosensitive mutant of Saccharomyces cerevisiae, Mol. Microbiol., Vol. 10:1101-1111, 1993	<input type="checkbox"/>
	8	JACOBUS ALBERTYN ET AL., GPD1, Which Encodes Glycerol-3-Phosphate Dehydrogenase, Is Essential for Growth under Osmotic Stress in Saccharomyces cerevisiae, and Its Expression Is Regulated by the High-Osmolarity Glycerol Response Pathway, Mol. and Cellular Biology, Vol. 14(6):4135-4144, 1994	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner Signature	/Iqbal Chowdhury/ (06/29/2005)	Date Considered	
--------------------	--------------------------------	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.